U.S. DEPARTMENT ©E HOMELAND SECURITY U.S. COAST GUARD CG-4139 (Rev. 16-04)	RADIOBEACON FIELD INTENSITY MEASUREMENT (Read instructions on page 2 before completing this form)									
, ,				FROM: (F	Radiob	eacon as lis	sted in Coast G	uard List of Lig	jhts)	
To: Commander, Coa 1. RANGE (Miles)	ast Guard District (oan) 2. SEQUENCE		3. IDENTIFIER		4. C	. OPERATING FREQUENC		7 5. MODULATION FRE- QUENCY		
6. REASON FOR SUBMISSION:	I INCTIONAL TE		OTHER				EASUREMENT	POINTS SEL	ECTION	
8.	FIELD	INTENSITY DA	ATA (Measure	d with Carrier	on-Mo	dulation off)	1		
MEASUREMENT POINTS			BEARING DISTANCE FROM IN MILES			FIELD STRENGTH MEASURED AT CHECK POINTS		FIELD STRENGTH NORMALIZED TO PUBLISHED RANGE		
					7	#A	uV	#A	uV	
						#B	uV	#B	uV	
					[;	#A	uV	#A	uV	
						#B	uV	#B	uV	
					#	#A	uV	#A	uV	
					7	#B	uV	#B	uV	
9.			CTIONAL TEST	CHECK LIST	Γ	ı				
			XCITER #A			EXCITER #B				
a. RF Drive			(±10% Initial)			(±10% Initial)				
b. DC Current	(±10% Initial)				(±10% Initial)					
c. Exciter + 15V	(15 ±.75VDC)				(15 ±.75VDC)					
d. Monitor + 15V			(15 ±.75VDC)			(15 ±.75VDC)				
e. Unreg Volts			(21 ± 2VDC)			(21 ± 2VDC)				
f. AC Volts 01			(42 - 48)			(42 - 48)				
g. AC Volts 02			(42 - 48)			(42 - 48)				
h. Modulation Freq		Hz(1020±50Hz)				Hz(1020±50Hz)				
i. Carrier Freq			KHz(±15Hz of	No. 4)	KHz(±15Hz of No. 4)					
10.			TRANSMI							
a. PA Module	V 1	V 2	V 3	V 4		V 5	۷ 6	V 7	V 8	
B (-69 to -75V)	V 9	V 10	V 11	V 1	2	V 13	V 14	V 15	V 16	
b. PWR FWD (cw)		W(±20% Initial) 11								
c. PWR REV (cw)		W(±20% Initial) a.			PWR FWD (cw)			W(±20% Initial)		
d. % MOD		b. PWR REV	PWR REV (cw)			W(<5% PWR FWD)				
e. RF AMPS (cw)	A(±10% Initial) C. RF AMPS (cw) A(±10% Initial)						A(±10% Initial)			
12.			ALARM	S						
a. Changeover (No Modulation Exc	citer #A)				CCEF	PTABLE				
b. Shutdown (No Modulation Exciter #A or #B)					ACCEPTABLE					
c. Changeover (3db Decrease Modulation or Carrier)					ACCEPTABLE					
13. REMARKS: (continue on reve	rse side if nece	essary)								
DATE TAKEN	SIGNATURE, RANK/RATE									

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REMARKS:	(continued)						
		INSTRUCTIONS					
	Units supporting radiobeacons will submit field intensity measurements every						
		calendar year (more often if required by local or district instructions). Additionally, a special report will be submitted when changes to the equipment or operating parameters (i.e.					
		frequency or range) are made that may effect field strength. The FUNCTIONAL TEST section of the form will be checked prior to making any field intensity measurements, and					
		recorded <u>after</u> the radiobeacon has been adjusted to the normalized range.					
		Distribute completed forms as follows: a. Original to pertinent Radiobeacon Station for posting.					
		b. One copy to District Commander (oan). c. One copy to the responsible electronic repair facility.					
		d. One copy to MLC(t) .					
		3. Item 1, Range as published in the Coast Guard Light List. Item 2, Enter sequence I, II, III, IV, V, VI or continuous.					
		Item 3, Enter morse code identifier.					
		Item 4, Enter assigned operating frequency. Item 5, Enter 1020 unless directed otherwise by Commandant.					
		Item 6, Check reason for submission, if other than routine explain in remarks. Item 7, Identify the chart or map used to determine distance to field strength					
		measurement point. Item 8, Use two or more measurement points for initial submission. Use one					
		point for rechecks. Distance will be in statute miles for the Great Lakes, nautical miles for all others.					
		Item 9, Record meter readings. Initial refers to the first field strength reading taken after the original installation or the last change in operating					
		parameters. Investigate all readings outside these limits and comment in the remarks section.					
		Item 10, Use V1 & V2 for NX250, V1 thru V4 for NX1000 or V1 thru V16 for NX4000.					
		Item 13, Explain all readings out of tolerance and provide additional information as directed by District Commander(s).					